Ben Hartline

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Education

University of Kentucky, Lexington KY   August 2023 - May 2027
BS in Computer Engineering, BS in Computer Science, & BS in Artificial Intelligence   4.0 GPA
Gateway Community and Technical College, Florence KY   August 2021 - May 2023
Graduated with Associate of Science while in High School   4.0 GPA

Relevant coursework:

Algorithms, Data Structures, Program Design (OOP), Software Engineering, Embedded Systems, Digital Logic Design, Engineering Computing, Systems Programming, Computer Organization, AC & DC Circuits, Electronics, Signals and Systems, Computer Architecture, Gen AI

Work Experience

IT / Software Engineering Intern, *Cintas - Mason, OH*

2025 Internship: May 2025 – August 2025 (returning)
- Implemented an automated logging library and database enhancements for the mobile app, including log uploads to Azure for debugging and compliance across test environments.
- Developed feature integrating Google Maps API to identify optimal sales prospects along user routes.
- Improved UI readability along with adding options to select search prospects along routes.
- Collaborated with the software engineering team through daily stand-ups, using Git for version control to manage code changes, maintain branches, and ensure seamless integration of features.

2024 Internship: May 2024 – August 2024
- Led development and testing of new internal company mobile app proof of concept.
- Collaborated with software engineers and field employees to gather feedback and refine app req.
- Served as subject matter expert, advising on next steps in app development.

Robot Technician, *Starship Technologies - Lexington, KY*   February 2024 - current
- Diagnosed, repaired, and maintained autonomous delivery robots to ensure minimal downtime.
- Performed hardware-software integration checks and diagnostics to ensure sensor, compute, and connectivity systems operated reliably.
- Managed preventative maintenance and parts inventory for continuous fleet operations.

Drone Pilot, *Freelance Worker - Hebron KY*   July 2023 - current
- Part 107 Certified Pilot. Aerial photos, videos, & editing.

Projects

Vex Robotics, 2022 WORLD CHAMPION   August 2020 - April 2023
Team Captain, Builder, Programmer, Driver - Union KY
- Designed (in CAD & prototyped), built (machined, cut, assembled), programmed (motors, sensors, PID control, drive control, autonomous routine in C++), and drove competition robots.
- 21x Tournament Champion & 20x Engineering Design Process awards; #1 ranked nationally for 2023 & 2024 seasons; longest win streak record: 14

Automated Video Generation Script   August 2023 - current
- Developed a Python-based video generation pipeline using MoviePy and API integrations to dynamically create short-form videos.
- Implemented structured data logging by exporting video metadata and performance metrics to Excel for analysis and content optimization.
- Scaled the system to produce viral content, contributing to 700M+ views and 200K+ subscribers across all platforms.
- Continuously updated and optimized the codebase to adapt to evolving social media algorithms

Skills

Programming: C++, C, Python, Kotlin, Jetpack Compose, MATLAB, Verilog, Git, Github
Software: Visual Studio, Android Studio, Inventor, OnShape, Google Suite, Microsoft 365, Premiere Pro, ChatGPT, Gemini, data visualization (Grafana), Jira, CI/CD, automated testing, hardware interfacing
Hardware: Breadboard circuit build, FPGA development, CNC Lathe, Router & Laser, soldering, digital multimeter, measuring, hand, & power tools, hardware-software integration, test bench operation, robotics